PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BP108687	FOR FURTHER ACT	FOR FURTHER ACTION See Form PCT/IPEA/416			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/FI 2004/000212 07.04.2004			10.04.2003		
International Patent Classification (IPC) or national classification and IPC					
G03G 5/00, G03G 7/00, B41M 5/00, B41M 7/00, D21H 19/32					
Applicant					
Applicant Finnish Chemicals Oy et al					
Filmish Chemicals by et al					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
3. This report is also accompanied b	y ANNEXES, comprising:				
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
			e been amended and are the basis of this report		
and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which	supersede earlier sheets, b		rity considers contain an amendment that goes		
beyond the di	isclosure in the internations		d, as indicated in item 4 of Box No. I and the		
Supplemental					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the					
Administrative Instructions).					
4. This report contains indications re	elating to the following iter	ns:			
Box No. I Basis o					
Box No. II Priority	Box No. II Priority				
Box No. III Non-es	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain					
Date of submission of the demand		Date of completion	of this report		
07 00 0004		10.02.2005	-		
27.09.2004)		
Name and mailing address of the IPEA/SE Patent- och registreringsverket		Authorized officer			
Box 5055			la de la companya de		
S-102 42 STOCKHOLM Facsimile No. +45 9 667 72 88		Bengt Christensson/MP			

Form PCT/IPEA/409 (cover sheet) (January 2004)

International application No.

PCT/FI 2004/000212

Box	No. I	Basis of the report					
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.							
	This report is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:						
		international search (under Rules 12.3 and 23.1(b))					
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	furnish	With regard to the elements of the international application, this report is based on (replacement sheets which have bee irnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report):					
		the international application as originally filed/furnished					
	Ш	the description:					
			as originally filed/furnished				
		pages* received by this Authority on received by this Authority on					
		the claims:					
	لــا		as originally filed/furnished				
		pages as amended (together with a	ny statement) under Article 19				
		pages* received by this Authority on	•				
		pages* received by this Authority on					
		the drawings:					
	· <u></u> -		as originally filed/furnished				
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence	e Listing.				
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
ľ		the claims, Nos.	<u></u>				
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report made, since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)).					
		the description, pages	·				
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
	.						
*	If item	4 applies, some or all of those sheets may be marked "superseded."	_				

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Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement 1. Statement Novelty (N) Claims Claims YES Inventive step (IS) Claims NO Claims YES Industrial applicability (IA) Claims NO Claims

2. Citations and explanations (Rule 70.7)

The invention

The present invention concerns a method for using a polymer coated paper or board as a printing substrate. The invention also concerns the printed product and the use of a coating on paper or board.

The object of the invention is a technique allowing repeated use of the printing substrate as such. It should be possible to remove the print from the printing surface by simple means without damaging the surface.

The aim is met in that the substrate has a surface of polysiloxane. The substrate is repeatedly used by removing printing ink with a solvent from the surface and by subsequently reprinting the surface that has been cleaned of printing ink.

Cited document

D1) US3250614, A1

Methods and materials for removing sensitizing dyes from electrophotographic prints are already known from D1 (column 1, lines 11-16). The purpose of this invention is to remove the dyes without damaging the image material (column 1, lines 62-65). An electrophotographic element consists of a conductive material and a nonconductive material such as

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

paper or wood. There is also a photoconductive layer covering the nonconductive material. The photoconductive layer comprises a resinous binder such as a silicone resin (column 2, lines 43-57). According to example 3 (column 4, lines 22-39), a xerographic print is made by depositing toner material onto a photoconductive material. Acetone removes the print completely, without damaging the image material or coating.

Analysis

D1 is cited in the International Search Report as a document of particular relevance and is now considered to show the closest background art. The reason for this review is that claim 1 specifies that the printing ink from the surface already printed is removed.

These features are not revealed in D1. According to D1, the dyes are <u>selectively</u> removed while leaving the <u>print or image intact</u>. Consequently, the materials and methods in D1 do not anticipate the technique of claim 1.

The method for a polymer-coated paper or board according to claim 1 is considered to give rise to an unexpected technical effect, i.e. removal of ink between the service cycles by washing with a solvent, without any other operations. Thus, this claim is not considered to describe a technique that is obvious to a person skilled in the art.

Claims 6, 9

Independent claims 6, 9 reveal the same technique as that of claim 1.

Conclusion

In accordance with the arguments stated above, the invention in claims 1-9 is novel, considered to involve an inventive step and has industrial applicability.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description

The content of the introductory part of the description (p 1, lines 6-9) does not agree with that of the title and the claims.

The claims

In claim 1, the phrase "a substrate" is mentioned twice. By this wording, the claim describes two different substrates. However, on the basis of the description, the claim is interpreted as if only one substrate is described.

Form PCT/IPEA/409 (Box No. VIII) (January 2004)